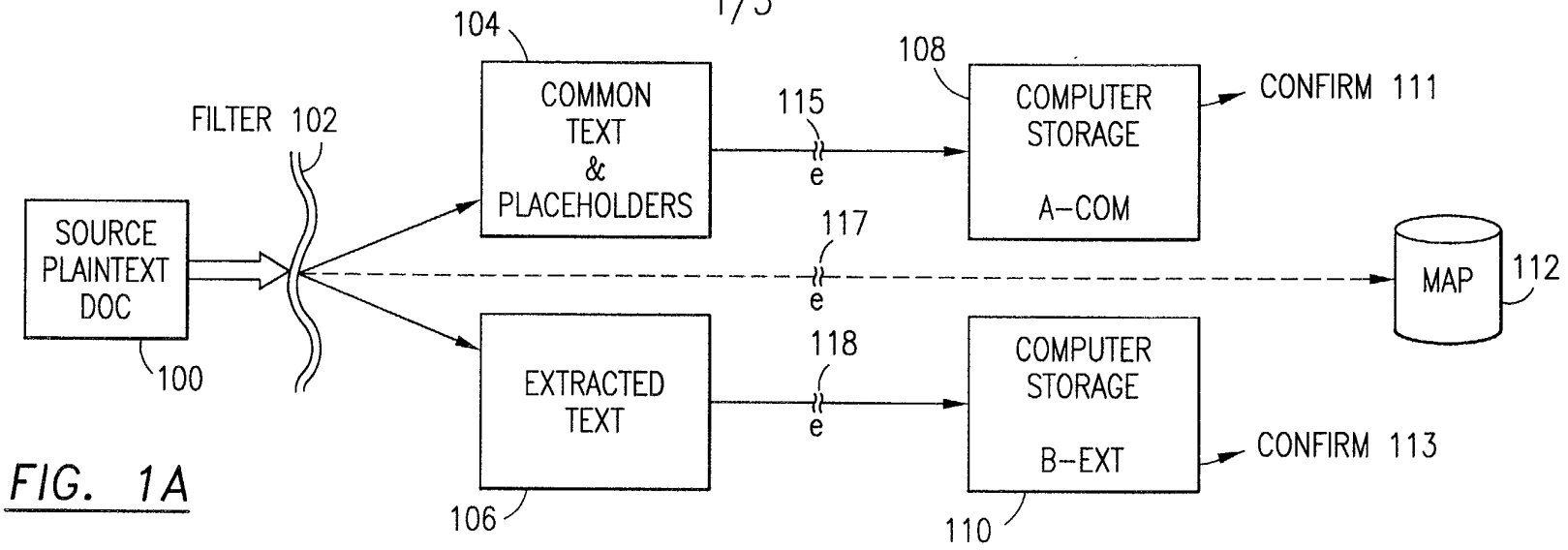
104
COMMON TEXT & PLACEHOLDERS
108
COMPUTER STORAGE A-COM
CONFIRM 111
115
e
FILTER 102
SOURCE PLAINTEXT DOC
100
117
e
MAP
112
EXTRACTED TEXT
106
118
e
COMPUTER STORAGE B-EXT
CONFIRM 113
110

FIG. 1A

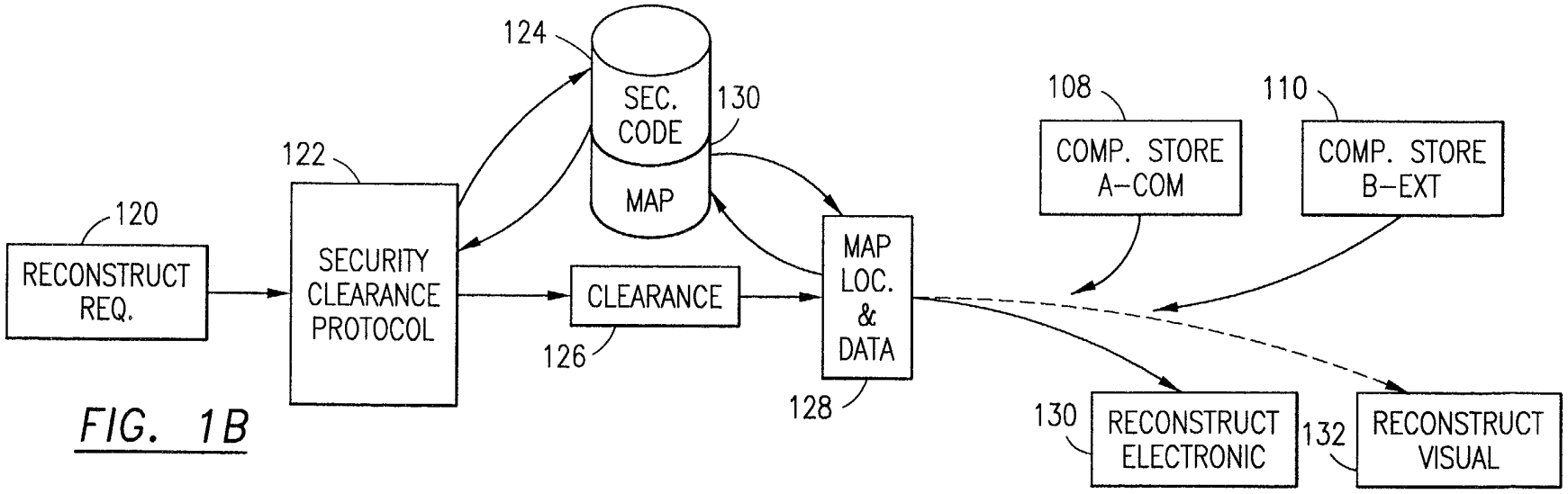
124
SEC. CODE
130
MAP
122
120
RECONSTRUCT REQ.
SECURITY CLEARANCE PROTOCOL
CLEARANCE
126
MAP LOC. & DATA
128
108
COMP. STORE A-COM
110
COMP. STORE B-EXT
130
RECONSTRUCT ELECTRONIC
132
RECONSTRUCT VISUAL

FIG. 1B

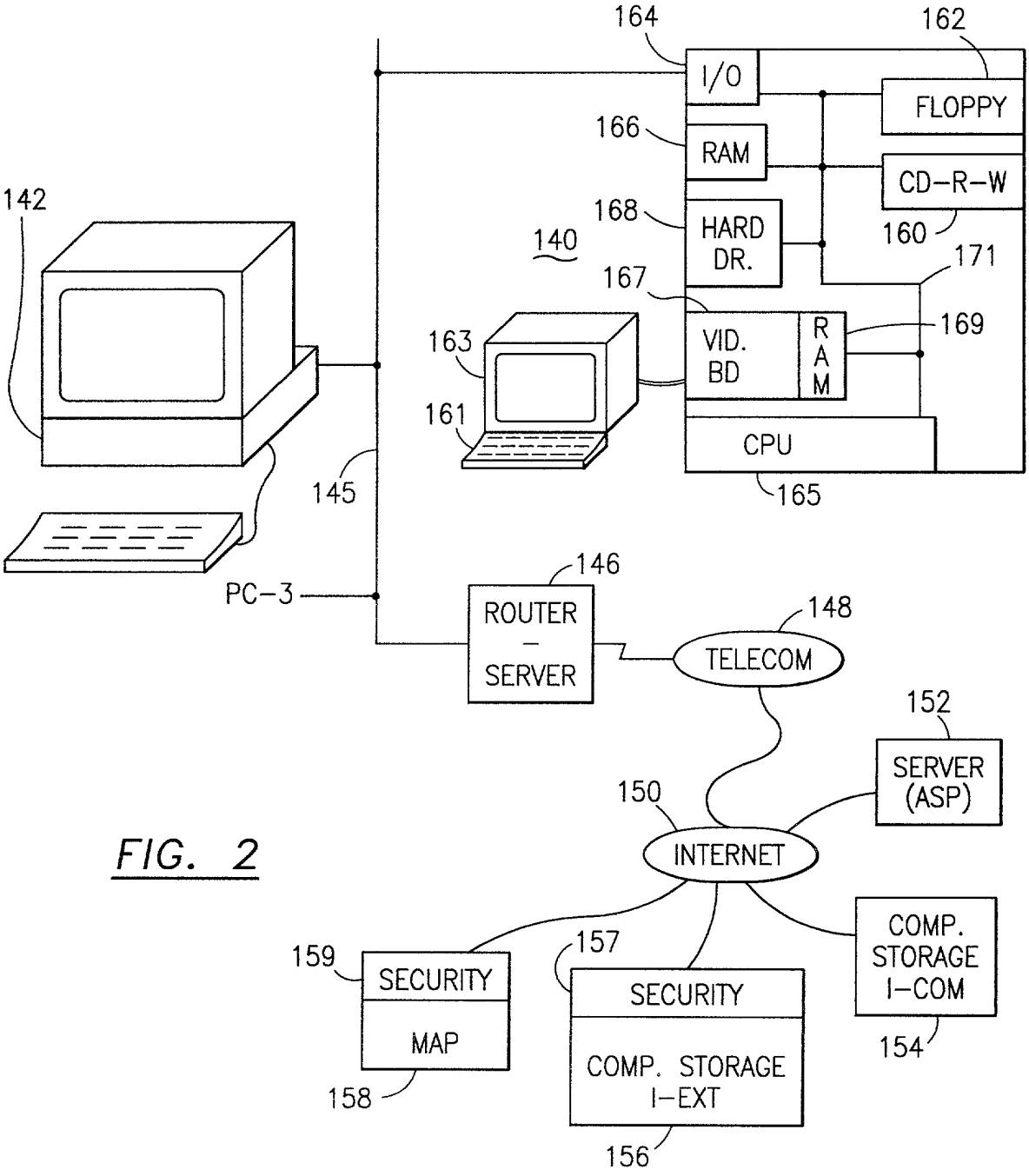

FIG. 2

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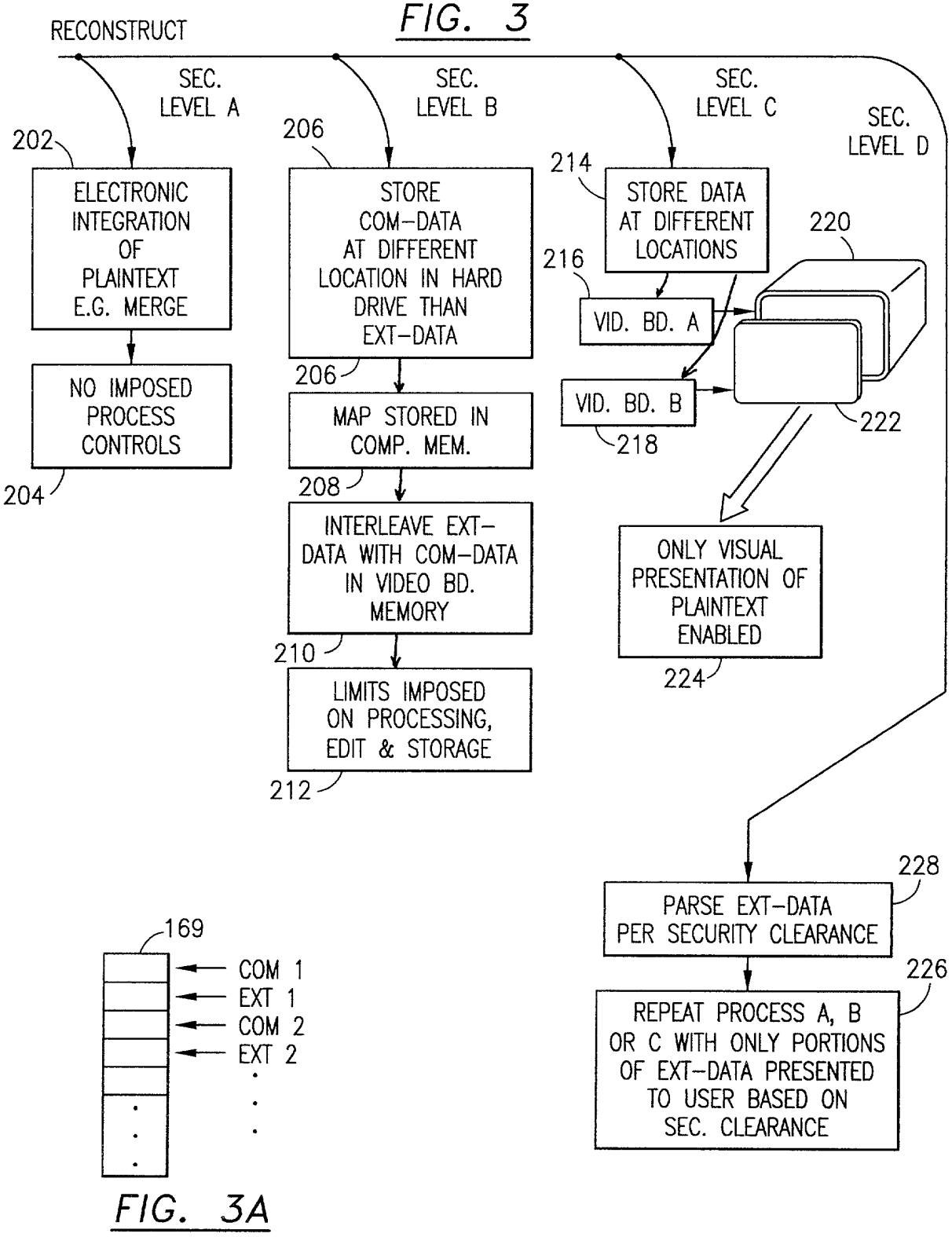
FIG. 3


RECONSTRUCT
SEC. LEVEL A
SEC. LEVEL B
SEC. LEVEL C
SEC. LEVEL D
202
ELECTRONIC INTEGRATION OF PLAINTEXT E.G. MERGE
NO IMPOSED PROCESS CONTROLS
204
206
STORE COM-DATA AT DIFFERENT LOCATION IN HARD DRIVE THAN EXT-DATA
206
MAP STORED IN COMP. MEM.
208
INTERLEAVE EXT-DATA WITH COM-DATA IN VIDEO BD. MEMORY
210
LIMITS IMPOSED ON PROCESSING, EDIT & STORAGE
212
214
STORE DATA AT DIFFERENT LOCATIONS
216
VID. BD. A
VID. BD. B
218
220
222
ONLY VISUAL PRESENTATION OF PLAINTEXT ENABLED
224
228
PARSE EXT-DATA PER SECURITY CLEARANCE
226
REPEAT PROCESS A, B OR C WITH ONLY PORTIONS OF EXT-DATA PRESENTED TO USER BASED ON SEC. CLEARANCE

169
COM 1
EXT 1
COM 2
EXT 2

FIG. 3A

FIG. 4

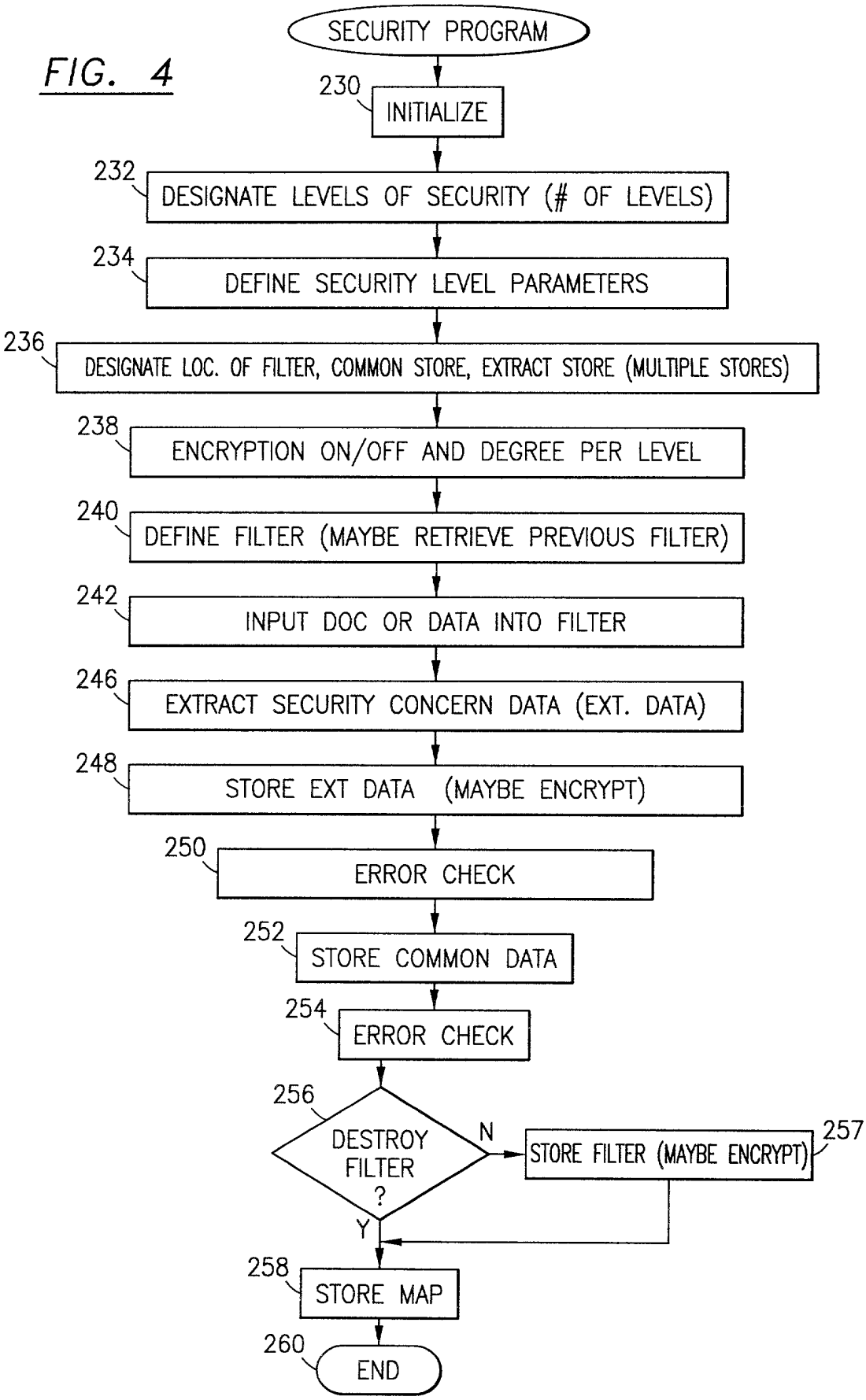
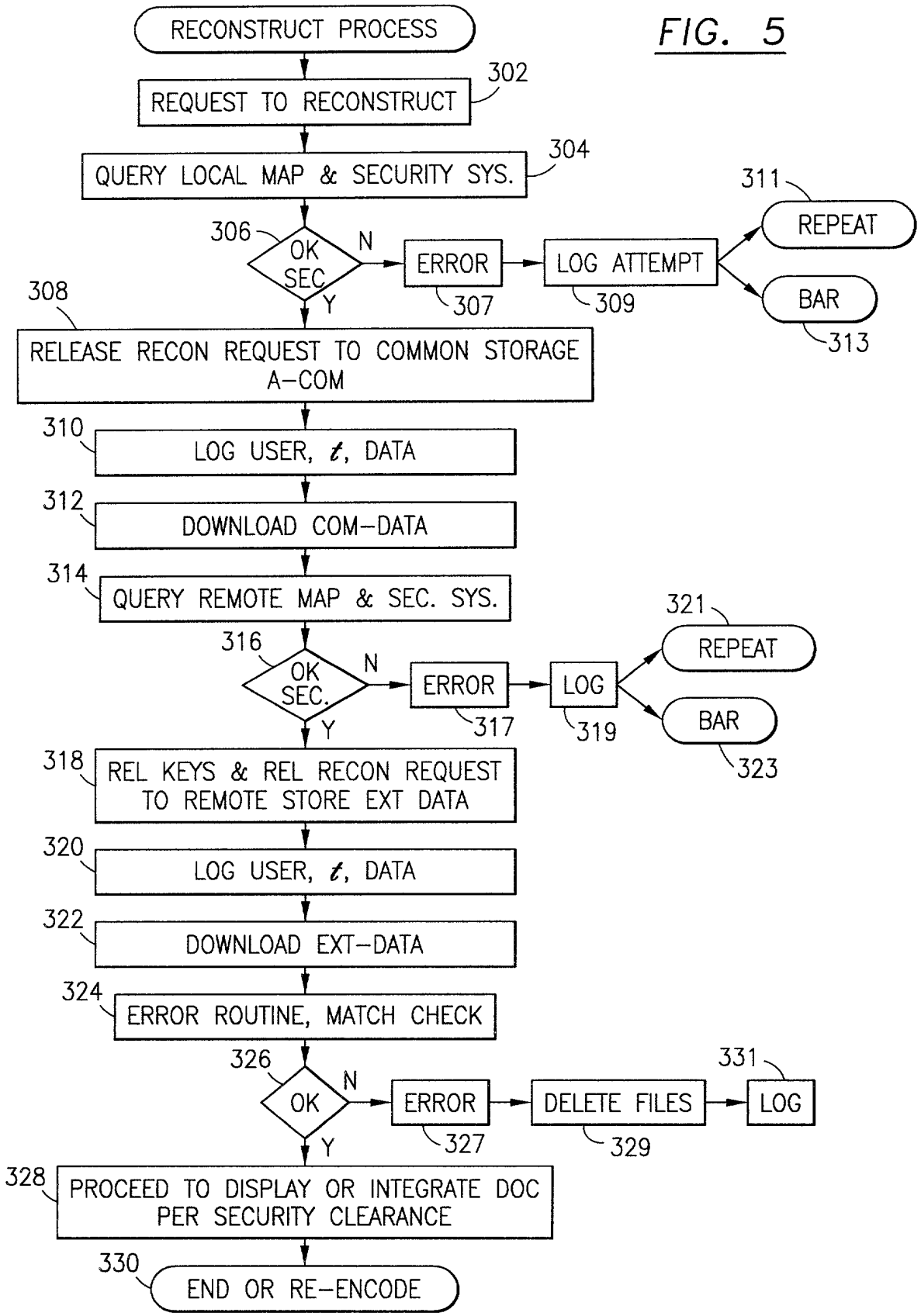

SECURITY PROGRAM
230
INITIALIZE
232
DESIGNATE LEVELS OF SECURITY (# OF LEVELS)
234
DEFINE SECURITY LEVEL PARAMETERS
236
DESIGNATE LOC. OF FILTER, COMMON STORE, EXTRACT STORE (MULTIPLE STORES)
238
ENCRYPTION ON/OFF AND DEGREE PER LEVEL
240
DEFINE FILTER (MAYBE RETRIEVE PREVIOUS FILTER)
242
INPUT DOC OR DATA INTO FILTER
246
EXTRACT SECURITY CONCERN DATA (EXT. DATA)
248
STORE EXT DATA (MAYBE ENCRYPT)
250
ERROR CHECK
252
STORE COMMON DATA
254
ERROR CHECK
256
DESTROY FILTER ?
N
257
STORE FILTER (MAYBE ENCRYPT)
Y
258
STORE MAP
260
END

FIG. 5


RECONSTRUCT PROCESS
REQUEST TO RECONSTRUCT
302
QUERY LOCAL MAP & SECURITY SYS.
304
306
OK SEC
N
Y
ERROR
307
LOG ATTEMPT
309
311
REPEAT
BAR
313
308
RELEASE RECON REQUEST TO COMMON STORAGE A-COM
310
LOG USER, t, DATA
312
DOWNLOAD COM-DATA
314
QUERY REMOTE MAP & SEC. SYS.
316
OK SEC.
N
Y
ERROR
317
LOG
319
321
REPEAT
BAR
323
318
REL KEYS & REL RECON REQUEST TO REMOTE STORE EXT DATA
320
LOG USER, t, DATA
322
DOWNLOAD EXT-DATA
324
ERROR ROUTINE, MATCH CHECK
326
OK
N
Y
ERROR
327
DELETE FILES
329
331
LOG
328
PROCEED TO DISPLAY OR INTEGRATE DOC PER SECURITY CLEARANCE
330
END OR RE-ENCODE

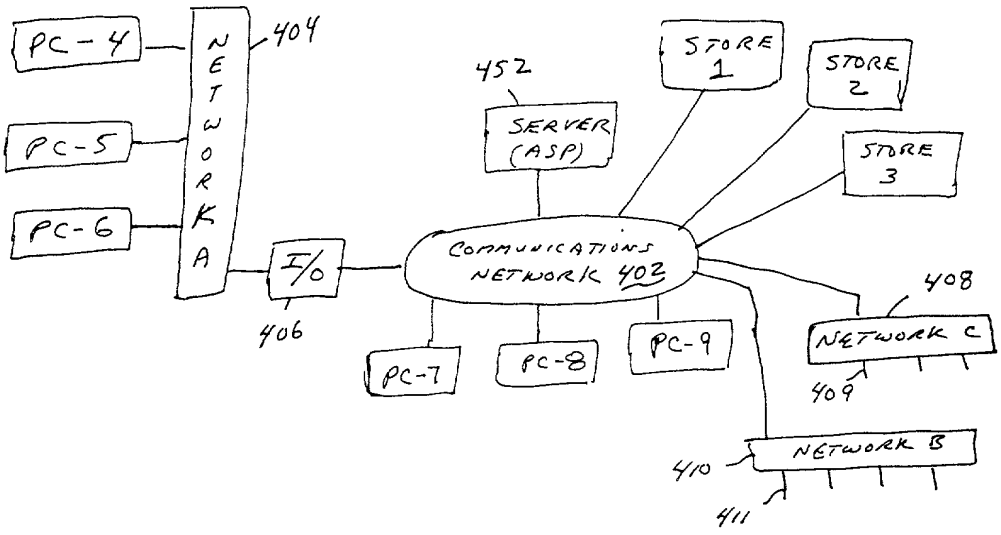

PC-4
PC-5
PC-6
NETWORK A
404
I/O
406
452
SERVER (ASP)
STORE 1
STORE 2
STORE 3
COMMUNICATIONS NETWORK 402
PC-7
PC-8
PC-9
408
NETWORK C
409
410
NETWORK B
411

Fig. 6

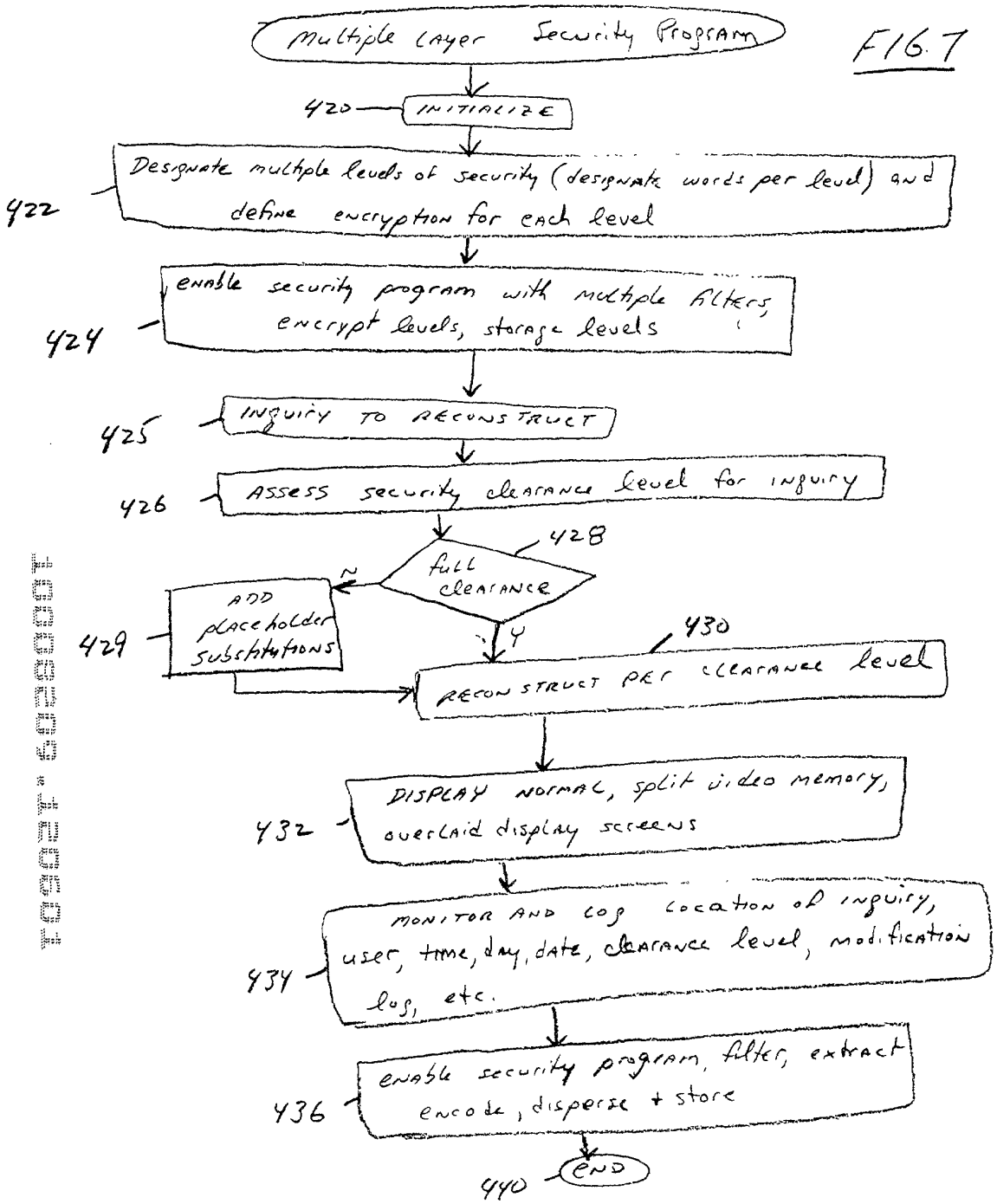


FIG. 7

EXHIBIT 1029

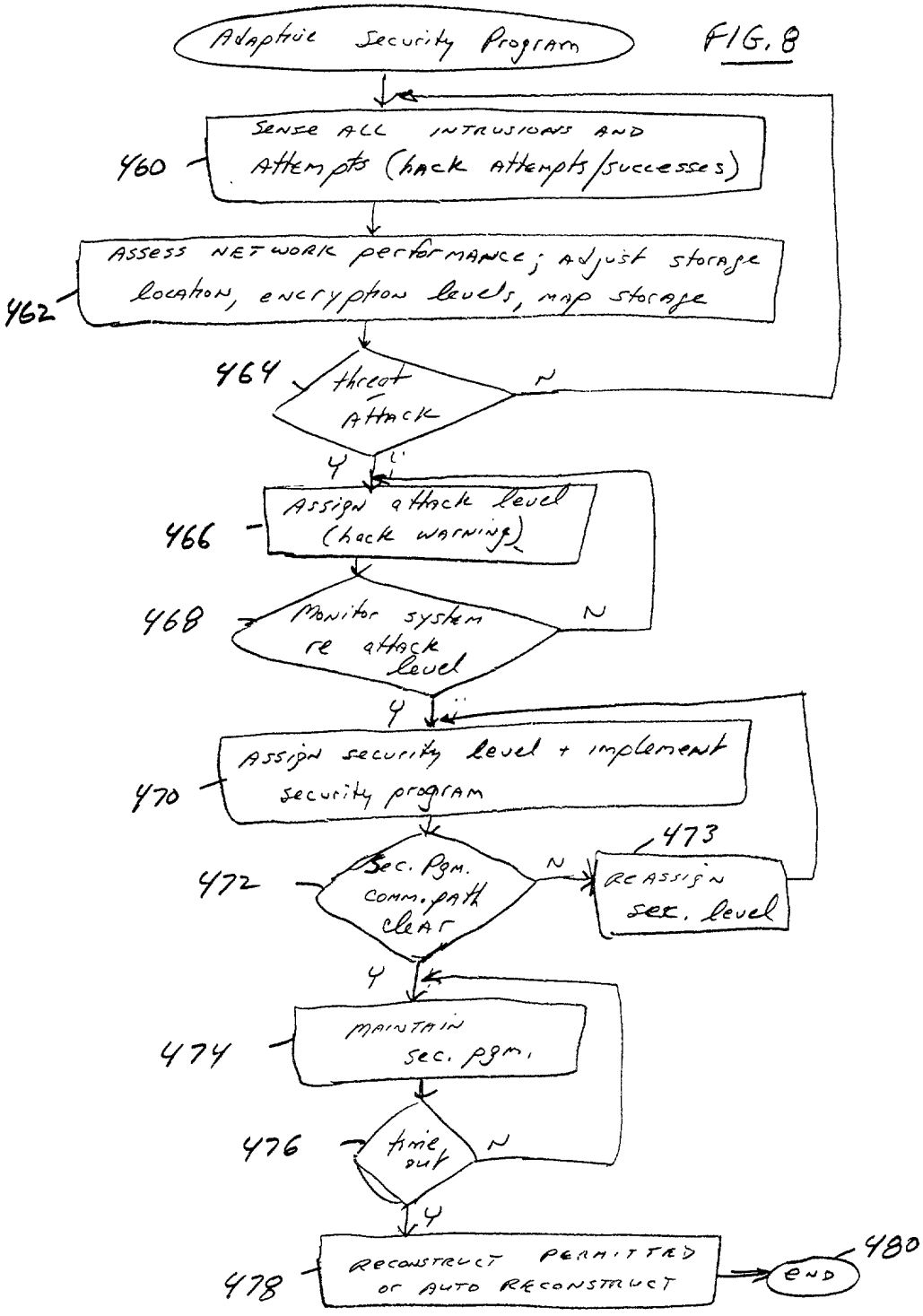

Adaptive Security Program
460
Sense ALL INTRUSIONS AND Attempts (hack attempts/successes)
462
Assess NETWORK performance; adjust storage location, encryption levels, map storage
464
threat Attack
N
Y
466
Assign attack level (hack WARNING)
468
Monitor system re attack level
N
Y
470
Assign security level + implement security program
472
Sec. Pgm. comm. path clear
N
473
RE ASSIGN sec. level
Y
474
MAINTAIN sec. pgm.
476
time out
N
Y
478
RECONSTRUCT PERMITTED or AUTO RECONSTRUCT
480
END

FIG. 8

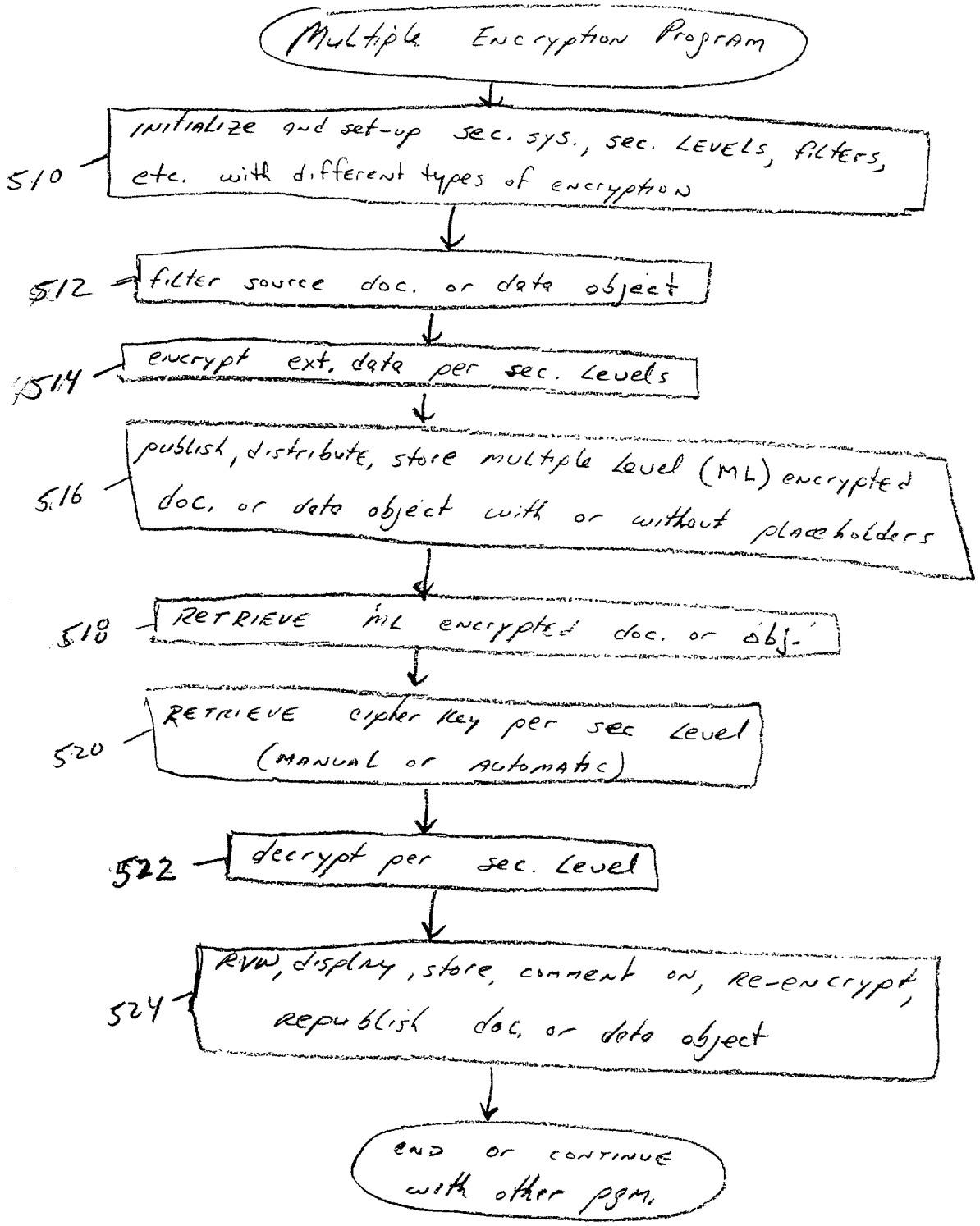


FIG. 9

5,892,900 • 5,960,404